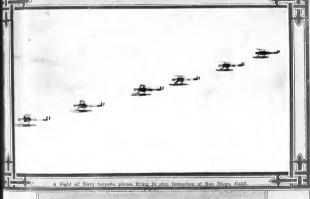
A DEPT.

The Oldest American Aeronautical Magazine

NOVEMBER 21, 1927

Issued Weekly

PRICE 20 CENTS



VOLUME XXIII

Special Features

NUMBER 21

The Mohawk "Pinto"
Fog and Night Flying
A "Flying Schoolhouse"

PUBLIC

AVIATION PUBLISHING CORPORATION
250 WEST 57 STREET, NEW YORK
stion Office, Bighaland, S. Y. England as Secon-Close Matter, Nov. 12,
25 at Holland, M. Y. under Act of March 8, 1973.



The value of a reputation for safety

THERE is no room to question the fact that a record for safe agrial transportation is the most have. Public confidence in the

metal monoplane That safety and-a-half-year record of Ford fishs operations. During that tornado One accident in 7700

ord Ford monoplanes make So

It is true that a flight may be rise pilor. The Ford morpolass bonds of a pilot whose scerae

The Stone Mark, Asserting Co.



Their CHOICE ...

SHOULD guide you . . . the selection and purchase of Fairchild "All-Perpose" Cabin Monoplanes by these outstanding organizations and overators is the hest endorsement of real value we have built into the belone. If you are looking for the utmost in performance, work manship and service, you, too, will find in Friechild everything an airplane can offer.

Newsch N. y

CLEATES PLAING SPROYCE.

DEPARTMENT OF NATIONAL DEFENSE OF GANADA

POTOMAC PLYING SERVICE E. M. BONNE. S. NAVY DEPARTMENT

I REPORTION, PARKINGPALS, & L. RES YORK A ST. LIEB AIRPLANE MANETACTERING





The Latest Loening Amphibian uses "Wasp" Engines

This new plane is the latest addition to the ever growing list of Wasp installations. In the Amphibian t has shown a considerable increase in performance over its water-could produce and the produce of the court o



Superior characteristics have made the "Wasp" one of the most vensatile engines. Its application now includes Single and Two-place Fighters, Amphibuss, Bombers, and Commercial Transport Planes.

PRATT & WHITNEY AIRCRAFT CO.

DEPENDABLE ENGINES



AVIATION

DOO2

The so of the way to be a series of the series of th

has dissillated to the and designed of the course of designed two retention making me has a contract of the course of the course

CHESTNUT & SMITH



(P)

NUT & SMITH BUILDING, TULSA, OK Empossible pains deserting to test "Naturalise" mill be expelled by applying to Assalam Service Congression, 12 West 40th Story, See Fack City AVIATION Necessary 21, 307 AVIATION 1227

The Ryan Brougham

Five Place Monoplane



Cruising Range 750 miles

Leading a new trand in aeronautical design we have built the

Brougham to carry 83 gallons of gasoline, pilot, four passengers, and baggage of five suit cases conveniently stowed out of the way in the rear.

Fully loaded the usual performance of this type monoplane is at once apparent, quick take-off, slow landing speed, high

Upholstered in silk mohair with the entire cabin insulated with Balsam wood, owners are finding this newest product of the Mahoney Factory not only efficient and economical but

"The same model that Colonel Lindbergh flew, adapted to passenger carrying."

musually comfortable

WITH SUPER-INSPECTED LS.C MOTOR to 200 00

B. F. MAHONEY AIRCRAFT CORP.

SAN DIEGO, CALIFORNIA



5KF Bearings Have the Sustaining Power to Stand up Under Tremendous Loads at High Speeds

AGAIN and again, MMEP Anni-Friction Against a re-proving their enduring qualities—in the air. Not only in freed-page news, but the far more important fields of generated and occanocated nerview. Special sections of the property of the pro

These contents of the contents

SKP INDUSTRIES, INC., 40 East 34th Street, New York, N. Y.



LORRAINE-DIETRICH AIRPLANE ENGINES





A Result of Vast Technical Experience
Sumple design and construction, conomical
municipations and design designs and construction, confidential
municipations and design disbilities.

JOHANNEOWTHEEL majors and the heat better than the state of the state

34,000 miles in 100 hours of flight — Romo-McDourne-Toho-Brene, achieved by Gelssel De Pincels in a S. A. V. G. L. A. flying heat with 450 H. P. engine.

New York-Bonne Aure, by Duggan, Oliveround Camperells, in a S. A. V. O. L. A. flying heat, with 450 H. P. enguse.

3,900 miles in 3 days, by Armed

restrictions tame-transport property of the Dolly and Correin in a Proof 25 wife 400 H. P. coglan.

1997

1,5,000 relice in Syrup boat across Africa by Capitions do correcte Guilband and succlear Repir.

Correcting South Atlantic, forces Balanca to first Fernando de Nosellans, 1960 relice in a not-tee midd fifth of 17 boars, 39 milentes by the midd fifth of 17 boars, 39 milentes by

SOCIÉTÉ LORRAINE-DIETRICH

THE NATIONAL GUARD UP-TO-DATE



The Curtiss O-11 "Falcon"

Time was when the National Guard was considered more or loss as a "home-town north." Not particularly well equipped, thefly of value, perhaps, in local emergencies, strikes, riche.

Then come the World War — and those same Natural Guard units, in spite of the handscaps of monificent training and equipnees, bloomed oversight into first-base fighting units — writing their hattery on the battle-fields of France in glorious fashion.

Today the National Guard, efficiently organized, well trained, properly equipped, is an extremely important part of our scheme or national defense. And like all up-to-date military organizations it has taken to the air.

Deliverus are now being made on a quantity order of Curtiss Cul 1 "Edicon", built for exchange use of the National Guard. The "Folicon" is the machine which is being supplied in large quantities as the standard two-scatter observation and attack plane of the U. S. Army Air Corps.

The CURTISS AEROPLANE Offices:

AND MOTOR CO., Inc.
Factories:
Garden City and Buffelo, N. Y.



Fighting the Boll Weevil in Peru

Mobiloil takes a hand

or Limb Pres. They executed contracts for

last as the Boll World women the owner growers, believes on a serious problem for the suplane operator. The Huff Dalard Danoers In North Assence, South Asseries, Europe, Assa and Africa, Moledoli is the charce of

You can depend upon Mobiled to relieve you

HATT BALLOW DUNTERS DO.

Mobiloil

Index to Contents

THE DESIGNA THEAT BANK

270 West 57th St. New York Olev. / brakes Office Highland, New York - price From delicing per peur Comado, Sue



piloted to first place in the two fastest civilian races at the Spokane National Air Races.

Processed With Curtus Cali

Equipped With

SCINTILLA

Aircraft Magnetos



SCINTILLA MAGNETO COMPANY SIDNEY, NEW YORK

VACUUM OIL COMPANY Down, Perleyd, Manager, Jr. Sens. V. Sen. V



- and address of the Park WACO'S Traditional Reputation Invites You to Fly It

Climb into the ecelerat of the know why it is the recognized lend-

Once you have felt the unstant ohe dience of WACO to your every

streamlined court - officient would shields - properly inclined wats.

November 21, 30:

who will put a ship at your dispo-





NOVEMBER 21, 192

Flying Collegians

A VALUE OF RESERVE HAS been made that Graver A Lat . upondent of the Leening Assunction! Knground students representing American colleges.

We have seen to be constructed stor than her latest reserved on a will demonstrately go the saward like the tions our streets of Oxford and Corshridge, in England.

The Unthinking Press MICE OF the present popularity of axiation is due to delle collectly given the recent nertal exploses the Haurer out news editors and other week afficials In reference appearanted topics to create at this stage of the net of forms. Let the press prest the news story of a creek on full

Brayo Governor Trumbull!

CKOM THE standpoint of aeronauties, the old adapt instructed by Connecticut's chief executive Governor Trumball who recently made has first sale flight and has seen been greated Piles v Lineage No. 50. For some time Governor Trumbrel has been an ardest avestion

Subscribers Please Note

OUR CIRCULATION manager has inferred as that Past experience has preven that a number who re-In order that such a consistion may be averaged it in rerepresent passparence correspons are show to Avances, you wind in your renewal order shead of

November 21, pc Samuler 21, 1921



A S. S. med plane pearing the "Hong" in the Surva Nevelse.

Flying through Fog and Night An Analysis of Problems that Confront

the Air Mail Pilot















and have a natural soft for finding their van aroun the

Plies at Vanoue Altitudes con-walls well over 2000 ft. an each side. It is enowing and Likelity is very near. He dress down 1000 ft on abovene

COMMERCIAL PROPERTY AND ADDRESS OF THE RESIDENCE



Assente: 21, 30 Spender 21, 2927

U. S. most where on the Lan Ampeles-Sell Lake all to 200 a

averboard. The relat councy from to within 100 of all Borley Meantain Depart he thinks of these there and he

hand side of the read to send a butle putting ay versi Over Eyer is resplied and the serve elses aboutly. colony is about 2000 ft. There is just enough 1014 fifted the river, the tay said in said sloud. He has no cannot tions come over him he is banked to the right, he misted

has a thing had not tell at all. He sames bisself to lapper, have where he can while moments teals. The

im Wines or Here he telephones every field for 270 mg new edge tidd. He taken off and simile to 12,000 ft. in He closely by \$0,000 ft, so he revenueds sent. They is severethic on he beings the state down to 12,000 ft, which alti-2009 P. Below the two of the for and 3000 O

Inc. Page Out Air Second Motor

storm. He new knows which direction the weed in. It was





Mad alone ooms not the Greekery Austral in Summers to

Norms Do will proud three and then pay! All then in Levi 20 am matte of the occurs. It is helf as hour after This case illustrates well what actually imposes when the

orr saffi he either over out of control, or the clevers and adequate conte finished. Let us course the

"Iot" :: a ram occurreon, perhaps everaces but twice or thrice a year for each polos, but when it source it must be



Newwooder 25, 30

is the vay of arlancing it if all adulable makes from

Terrels 146 Ft. Per Minene and longituderally and beening on a straight coarse, room fronts the palet. A tank involving the purely physical for

you mile to branching "blind" at 165 fb, nor second, and and how creek of he empects to have a manufa of control. and the i it, over though her Eight-path did hearen to man tur let livit exactly the content flight-path for the landing Vor. of Done militie at one second tolerwate at which he

july in one of his motroments as well as no error in automatic motor-directlyng, come today a matika alamidan

poores and practicable.

an throwise his engine for a given into the field, only ton will name Suppose he flow "engine on" to within a few feet of the ground, annualing, so by some math sense, all phytodes. The charries, even to, for thesing the affair enterly are de-

Mech Left to Pilot's Skill To the is not for distant when propagated environment red on wife a high degree of efficiency through day and two of the task hose been just to the price's skill. Our mealtwhite the caltivation (1) of an appearal acceleffor to such

two relationships, detectanded from reflex undewerts of the

wh as sy distance indicates on the instrument-hours, lings o riking griced-meters deven for self-briding and the Smithcolan Invitation".

ments bory assessed and readily interpretable under condifirst of cross, but also excelled training in this particular

tors. We result selv. until great generousenests are reads to so close to the ground that collecte with obstacles might paseach shaped adapted to form a cultivary for lauding, a natheven new, effect safe landings-piece, the radio consequen-

with the possible comptant of for posetratour lable, era For Mud Landings



Begin Work on Airway Lighting WITH THE promotors consistent of the fait Laberton On Drugs has been embled to begin the preliminary work An arrienge in burne scale to have debubers consumers

II S National Museum Handbook

November 21, 180 James turnber 21, 1923

make strike person between Germany and America,

Theoretical Plinks Conducted benefit of Dr. Horn School bend of Delay the comat according. This was in 1912. The properties was some

The startuar as of March 4, 1993," he orders.

Over 1,000 theoretical fluths were made in this magnet

New Air Mail Stop To Be Lighted A DESTIONAL LIGHTING will be provided by the Demunshort 67 ms of additional hubbins. The City of Madison has

Location of Fields Difficult

CONSIDERABLE DIFFICULTY les bees experienced on



a marks prescribed with resulted shell dress by a marker and performing other dates which much been because of

A "Flying Schoolhouse"

Goodyear-Zeppelin Corp. Engineers Design Craft for Training Military or Commercial Crews



By WALTER E. BUTTON

No Substitute for Actual Experience in the execution of the divisible, there is no substitute for

A dentity of the mostroom on the "flying schoolbester" designed by the enquierr of the Bookpea-Reppolis Corp.

which a repeated to the nation at two or more notate. Union Trust Company of Detroit. Among his aviation framely The costs I have been adopted for adjusting a stabilities and

to an emply adjustite. Pig. 5 shows bow the con-

mount or the Natural Air Durby were built by Arren

and You a shown the aderes and intake manifold our-Several loose correlant manufacturers have peads exhaustive

braids both in machines bush for the purpose and it to

a tir olar parts of the central system and ste weigh no main that the polarizative complemental half erradio which it Union Trust Co., of Detroit, Mich. Purchases a Waco Ten Airplane

"THEOTY" IS the name of the new hiptons purchased by

Street, W. R. Mary, Edward Scides and William St. Shoat. hilly of a new place for the Union Trust officials, thomselves,

Jupiter Engine Successfully

Completes 100 Hour Test Run A REPORT resided from the Brantal Assophine Co. Fil-

a Januar rooms economical under house in Haly by the was ren at 420 kp. at 1790 s p.m. and the remaining free The 100 hr. test was removed on July 25 at 7:50 A.3 During the first hour the engine was yen at 420 kp, at 1790 carnor devolved 279 kg, at 1600 rays, that is to say

about 9865 ib, per by, by, and during the last hour OUT In

the months are blocked avoiding department of the Un-Durier the whole reviet of 300 by the receipt was exin prefert condition. many. The assument is fortunate in being able to com-

and do a vice of so well-known an argumentum expert to for this or The establishment of the existing departs Varnish Firm Studying Industry THE BASS-HUETER Part Co. of San Pression, Colif.,

For West, or obsolying the nerveal unitately carefully in on

varnishes for a number of years. In the building of the Apoller many programmed mort of this variable in the St. F. Mabonay Curp, hulter of the Byon Brougham.

The Arens Control

A Control Mechanism Designed to Replace Bell Cranks And Yet be Light. Positive and Reliable

FIGURE HAS always been a long felt need among sermeans of mider holes "C". Between the stds of the tile. rapidly adopted by many of the leading aircraft marminthe force is transacted through only "D" to the thire has and when a reconsecure fure is applied it in recommon In external appearance this excited counsts of a beau-

is inserted a sound steel sound "E" which is sle dy want



der the strace produced. The searle of transmission out in Stoonet the fire wall can be made tight fitting. Green't the control is fitted around the fire wall region this. through Arens controls are manufactured in two sizes, it is in The Mr or airs to respective send for energy couldn't send or desired a condensation of the interest which the Ucons on the sq. or one is generally each for engage control and a simply a continuation of the interest which the Control and a simply a prevalent. Finals W. Blace, has

the sected. There is no lost motion. The letter "A" in dorste the labor which freely shife in carring "A". These solder, and some threads are located at the suds. A flexible to the red by shock mate.

the end which attaches to the control. The control locks ands the takes and the mains, and soldered to the takes by the most common probably being a farmed " of the

him is orbiton advancement and progress in Detroit-Cichristes Greet Contain Collins The over place in a. Wasse 30 and a duplicate of the place. Vick records were the Clean B. flast prope on the New York

" Station "release which was opposed in that event. It.

Wanted with an OXA market. They Could be College servined at the Ford Algebra, he was

Freshet N'-y and a large group of other officers of the

an other repayment, while beggings may be stoped in a septhe unforcement in of a split ands type with a trivial



Side were of the Mohout "Pinto"

to their with a minimum of releated. The 26 on, wheels

Regit words 6 ft 3 to Cherl of young at yout 5 ft 6 to Veget copts U.S.A. 55 modeled 730 fb. Republic lend 500 He Right speed 130 map h Ground speed 60 map h

The Midward Agreement Corp., were organized with Leon A.

Install 100 New Airway Beacons SE MUNICIPALD additional new arresty beauties have been totalled by the Department of Comments at Washing array The group follows a similar installation of 100 which were needed previously for these two alreadys. They the are referred with an automotic home changes, a device which are the faders of one long automatemity puts a tasker keep in place. A fleshing mechanism which is used

be conserved lights on the already in also part of the equip-

Producing New Instrument Board THE ELGIN National Worth Co of Chicago, Mr. is now TA. containing an Elgin Chronoustric Turkopater, Abuy and so Eprin 20 hour circle. It also recludes an account. for six-cooled enginee; should the board be used at conneced with a two candispower Manda home. The purpose of Often when warming up up engine at pieht on a beletchfeetive. At such time analyzer direct lightness is valuable Control heards of the above type have been ordered by the

S. M. Lend Arritan Co. of Chings for once new places that it is building. A similar heard has been installed for experimental purpose as a Ryan Brenglam by the B P The Birlo Nabonal Watch Co. manufactures two other Prints of Branch. When one both indicated history Cominchemeter and four other secons. One of these hearts in being used by G. S. Ireland Accord? Co. of Carden City Lour Island, on de new appriction. The setting band of these beards in obvenium plaint in order to nature full and uniform humanuty. The weight of the entire bound with much on these described speed up production as a greater di-virion of labor is possible. The pullivioled featurements can he placed in the well control board and then this heard placed

White Boundary Markers Adopted THERE-POOT sinck of creaked such or simpler material

termentata firide on arrenya for duright fixing anstandards to the circle of white-proced stone. Where the

skey markeys will be used but without the hight standard New C.A.T. Chief of Operations COLONIAL AIR Transport, operating the air soul and

H Thomson, deceased Captus Revised to late of the U.S. Army Lie Corn. is makely known in aviation elester. While an officer of the

The Mohawk "Pinto"

A Full Cantilever Low Wing Monoplane Powered With a Detroit Air-Cat 60 Hp, Engine

E ARLY THIS yeer the Mebowk Acro Corp, of Minne word spor. The allesses are controlled by a torque six spoks, Minn, stored controlled on a law wine two discount the way.

150 th, and with full lead climb at 500 faces ally diselful to provide stability with the lifting surfaces

spaced approximately every 12 or. Elle are built an with sprace exprings and three three ply malaymen who. A erross efficient is read to recofered the red for the semipresente office draw forces and torsion beaut taken up hy-

to store the wigge to no ordinary surger. The nines on here tested by destribution a load of 2,000 He, over each pint bracker. On the new, recented on a wakled steel from a adventures of early in tenders with ambient consumit of the sole by eds arrangement. A large windowld or

It is cleaned that these alleges are very effective one of



The Douglas T2D-1

All Duralumin Three Purpose Convertible Navy Plane Powered With Two Wright "Cyclone" Engines

print. Stort three-binds proposition are need. An of the and first true landing goar. The wheel type lending on

Pilor's Cockpit Rossey and Confortable struments. The print's covings t is recover and commutable of aration of an arrelans of this type. A bomber and gener



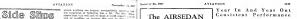
Sule vary of the Dennius TED-1 Street or a complete The acrelans etrectary consists of notal wines and ell-

Front master view of the Director T2D-2 Stort for her

The tail exits are of metal ecertractics and covered with the lower wing. The smoother are motel control and are

ment, restarble familie store, bonds, and a torqui- robot of The radio compartment is equipped with a log ret Particular attention has been given in beating the pill to fasilitate landing about an aureraft carrier hausest. plene carriers, although it is the leftpost povelane leaded







In a news article on the Swadov edition of one of the New

York papers we find, "--cent of the buy three-motor places

No. 150cm on become see in 10 Oct converse to speed to story

Speaking of knorps, reminds us of a story that is told by

the electorruphs. The photographic plates were used in There the wind cought them and they chil beck view to

money. One very bugger and windy day, Manuall at war

found that he using all of the atleren control available to river. They managed to name down the 1200 ft. in a contr. normal firing affitude and landed without figuriar over. The

$AN_{\text{ew}}I_{\text{nterpretation of}}A_{\text{merica's}}N_{\text{eeds}}$



The Stearman Whirlwind Mail

Plane

Our offices and factory have been moved to a more central distribution poss-

Please address all communication to The Stearman Aircraft Co., Wichita, Kansas



SPECIFICATIONS

Search Connects Piller and A Francisco PERFORMANCE Nigh Speed (on bred) ... 120 M.P.H. lgh Speed 41 and 25 and POWER PLANT Wright Whithward 200 or 1000 \$ 754 Fuel Capacity 10 gale EOUIPMENT Self Stormer, Braken, Mond Press Compan, Air Speed Indicator, No. Air Gege Threedox, Strainer and Funt Valve, Ring type subsent manifeld with moffer and colon beauty

> The Armeiga is not engaged and Price \$12,500

BUHL AIRCRAFT CO. Marysville, Michigan



Their rogular and consistent performance in

Prompt Delivery in any Quantity AERONALITICAL

San Diego, California

AIRPORTS AND AIRWAYS

Roise Idobo

Mile. Marreless d'Alrey of Peru, France, writer and Inc-

other coethern Habo points, said Mr. Therepeen, who a short

tens are. Assessed blake anyens before a meeting of the

more a dist may the manager's official silet

Oklahome City, Okla,

Work on the new honeur of the Oklahoma Aero, to lated by many windows, allowing light to pass and the

The Oblahessa City Arry Club is well under war and now has a large membership list, so large, in fact, that |toront. Tible has deried instruction work for the members. This fown to learn how so my. At a recent mentury on an one, J. Courte Mayre was elected vice president, to measure to age A continued convertion in house classed for Obligion aviation conscittee of the Chamber of Commerce. The con-The School Spread Oblahoon City start man, who has mede meny serial death defying stante in med wear Obi-loan

on the right agreer. They have their claim how what it to The Churcher of Conserve has usued the following our T. C. First, perpend elects at the local reconition states has accorning that the aviation curse of the E. S. Arrey of months have. Only qualified high school graduates and ev-

AVIATION Specializes Austin in the Design and Construction of Aviation Buildings

S WIFT at has been the conquest of the air, it has found every building need solved for American bangur, factory buildings and other structures of Austin design and construction dot flying fields the country over

Conbinent in one nation-wide organization the services of both engineer and builder. The Austin Method of Undivided Responsibility engrantees, in advance the total cost, correlation date and quality of materials and workmanship.

Where construction is to be handled by a local builder Austin will also fremish stort and other essential materials recompile and

Representative Austin Clients Borner Austiens Co.: Curtiss Aeroplans and Motor Costs: Gless Martin Co., National Air Transport Co. Inc., Davion Wrish

Airplace Co. Aircreft Development Corp. Food Airport National Advisory Committee for Acronautica, Philadelphia Stout Metal Applane Co., The U. S. Navy: Lockheed Applane Corn. Thomson Acronautical Corp., Prett & Whitney Arr-CHARLE CO.

To obtain preliminary plans, approximate costs, etc. quickly, wire or phone the neuron Austra office. The mono below will bring the "Austin Builds for Aviation" folder with our correliments

THE AUSTIN COMPANY, Engineers and Smilders, Cleveland New York Consessed Obstage Sarvey Firebooks Principles de Leafs Secreta Forebast Vic

ATTETTAL

1	Complete Buildir		
~	Manu In THE AUSTIN COMPANY Classics	d- Ware	sourced to r

Sparre Statistics Acceptants and Market and Sparre Sparre of Sparre Sparre Sparre of Sparre S

ECONOMY

The new \$45,000 factors of Travel Air, Inc., will be on-PERFORMANCE

bory, which is 275 ft. long by 15 ft. wide. The according Harry Brooks, a representative of Heavy Food, loss to

Travel Arr heplace, has last purchase being equipped with a sale connection of realizer past eleval or Sente Money.

Trevel Age, Teo , Exponence completion of pitters for Owi-

P. E. Tahraham of Aus Arbor, Mich , has related by order

Son Diego, Colif.

to get viting a regist development in commercial arcetion. years, in and "Things in the recognitio field are westly

Keemb r 21, 1607

Suco Uonica Calif.

To L. V. Back Accord? Corporation of Cleary Field an-

Sear Broamrick, N. J. The Art. Clair of New Brennwick was created one year Them I will we choose. This place has been used WINTER KING Flying Suits

potentine Model steel ATTIVITION AND IN Two large breest

Separate Ser. Sec.

ner are her

tricks our in pai on and take of

Two

All Sizes from 36 to 46

WARM, ELEGANT, PRACTICAL None Rotter

Air Transport Equipment.

Aircraft squipment and presenters Carle Place, Nassau County, N. Y.

SEZ MAC I F it were possible to have all OX5 yels of various desires healt in Deaver. 5680 feet above sea level - and then have all prespective prophases watch the different shore take off and land with full to build ten Eaglerocks an hour to sandy

EAGLEROCK

Days of Com. Approved Types Nos. I and I CASH - \$2475 - DENVER

Sistema - Singer Streets Co., Vol. Contine May, Alberta, Sa. sy alicent large shows he for RS Shows Rapes d Fn.—Charles Elling Section, Jun and Hoth Sea, here Leave.—Finemer Fjores, Inc., More City, Leve ne.—Fyr Eight 207 ft. Halls 6t., Micharette, Sel Hadgent.—Him Avener, John Holland J. and Commission Section Section 11, 2

N. & Con. Forcer-Strummer Airplant Sales, White Pulls, Dat. Sci. Con. Forcer-Strummer Airplant Sales, White Sales Sales and Sales Sa W Mankhelmen M December (Spillerin Steet in St. 1988)

Ry Med C 200 M - Writing (Street, Str.), Over Writing F 1988 (Street, Street, Str.), Over Writing F 1988 (Street, Street, Stree

Maryland and H. Prangaranton-C. W. Donathan, Alexandria, Va. St., F. W., V. C., Villand, Scientiffer, S. C., Villand, Scientiffer, S. C., Villand, S. Pinter, Pranton Appet, S. C., Villand, S

AMOUNTED WHEN ALEXANDER INCOPPRIES Room att. Abstracts Informate Main. Essent. Colo.

Austrolity

Flashing Beacon

In coded Back, so com-

coton of the field. Fact, fluit is visible from Each But is visited from

The B. B. T.

and lenger period of making of the flesh makes the opposited become

Our raising of Assaran Lighting Equipment shally mailed on request. BRT CORPORATION OF AMERICA

Now Ready!



AERO

the wide vision corde East VIndoncement Branco AENO Up-To-The Mesons

Strauss & Buegeleisen Brooklyn, N. Y. San Francisco, Calif. steady throughout me minner and might blance on ton trained and solved in it. It has been used an environ of even-oundry leps to Patiebriphas and Long Islan. Yea settin member of the eigh owns a share at the all a Th-The New Recovered Account is less than a few country the field is bookered by the Losonia Highway and on a south

Perth Amboy, N. I.

and complace facilities on Sarrier Box

Necessber 11, 1822

President Jacob M. Klein, of the churcher of commu-

Archer, Flard E. Smith and Hernie Kene, vetera side

service pelot, acted as general chargess, of the association The surport eathernoon developed at the disease will it a

Atlanta, Ga.

By L. T. Jones

The new field has been approved by the Dogor need of

Cast. Booler Mevins, it is reported, in presing to it.

RADIO EQUIPMENT FOR a Walterfall, D. C. and return, using a Ryan monoclass. AIRPLANES and AIRPORTS and arrests can equip

Deltimore, Md.

to a record of presenced Religiouseans. Mr Black operated , 22,000 mile surplant trop from Association to Balavia. Ambry offers as affed freation for a model surport and had produced free laster, and return, to prove that it was pureble

Welcome Art Goebel

transporting mad, or express, efficiently and noncour many thousands of all conditions. - the Travel

TRAVEL AIR MIG. CO. Is WHITE AND PERSON COMPANY OF THE PARKET

Secondary 21, 9997

backed by the name and reputation of the Radio Fall information on radio : telephone, radio telegraph. and beacon radio compment for communication between plane and plane. plene and arrowet, and

airport and airport may Radio Corporation of America

with radio apparatus

Boston, Marr.

here collected \$1800 to one work. This multiples almin t work



What Do You Know About Airplanes? TEW same one same had to become experience. They had no one to

saids them on one to point out motaken Today the American School of Aceston office you three later years of proceedings and hardwise, which can't established

buddy endered by personnel readers
WRITE TODAY

American School of Aviation 1601 Michigan Ave., CHICAGO, ILL ----

Introducing the New Lincoln Page

P O B Locale Plying Fair! Dual council equipment app paint. Agrets sented. Characters range from 35% as 11% towards or moder of viscos and Write as were for further information. Deliverses

For Sale

Breese 4-Passenger Cabin Monoplane

Same as Jensen's Aloha Write Varney Air Lines Beire Idaho

er with statistical data from version European a hast-

tions have grown of Botton totaled. Harvery Fivence

ingread my actually processes a record hazara at the

in the old 1921-1926 Cachine. Can torbed palerman at the errors chr. to leave the arrowst wis to the O'tr of Ber-

Daluth-Superior, Minn.

John could, who as building up a properties on the only

Hartford, Conn.

Mal. Gen. Morros D. Pevros left Bransed Pold : max. The New England Ameral) has defeately set a totally Tests are being conducted by the Peats & Whitery Nowal-

IRVIN AIR CHUTES see the standard lifebe seen firming at free: 25,000 to 16,000 fb, and the rear of United States, Great Betain, and many other IRVING AIR CHITTE COMPANY, INC.

PERRY AUSTEN Acetate DOPES Clear DEDDY ALISTEN CLEAR ACETATE DOPE The Lesting Undercost make such a carryy, since he is not only unreduct uncline to

TO MAKE AMERICA Of particular reterest will be such an idea as the follower. FIRST IN THE AIR IS THE PURPOSE OF THE

-UNITED STATES AIR FORCES-Severa Officers Called to Active Duty

AVIATION

Secular 21, 1927

to make to carry out that provision of the five year acr in the under of effects required for the service will be In care where it is engineeristed to order afferm of the

To Photograph for Shipping Board At the council of the United States Statement Based, the lear, nevr Seigmon's Dixed, Md., the Coldwell fleet In-

Vist Postgraduate Engineering Courses the Perry of Nanogton has need out a creeder letter on The lattice will encloder requests of applicants in engin-

The Discourse requires that officers applying for post-

The American Eagle Symbol of Quality On every American Engle place you will

Kansas Crty, No.

AIR-CAT

America's First Capitaleroot Assorab Engine The Develt Air-Co is a madern

to able offices is married and facilities YOUR econgration and support Besular Membership \$5.00 per Year The Barr Building, 910 17th St., N.W.

National Aeronautic Association

The Best Fixed Conference-Our Clear Assets Cyperconn-Our Figuraced Depos Perry-Austen Mfg. Co., Staten Island, N. Y.

522 MAIN ST. BUFFALO, M. T. Califo Address - Time Supply N. Y. USA"

"For Safety in the Air - Everywhere"

to their rewest high state of efficiency by several

IRVIN AIR CHUTES have saved the lives

PUBLISHER'S NEWS LETTER

After a year formed too to the aeronamous megboned necessatical meetings, a flight was made

The most important development in accountwill be used on many medican synthesis without a few pass not by green, but perhaps some idea description of a finish which the Publisher of

there via Prague to Berlin. From Berlin to Lon-

London had made suiths the areas of the inner-Pape's well known suthercare and some of cubthan supplied. Within five minutes after arriving

shortes the east. Ower or the air, the should work the pilot. An arraw powder is attached to the 1500 feet owing to frame weather but the plane shaded to 1800 feet. The pilot theretal the

1500 feet to 600 feet the plane gradually desensied and to show that it was under perfect central. Feeland kirked his radder negotal name to demonstrate If-en is changed and domanwhere and rell over runtral when the place in stalled on so 25 degrees the damper of spinster well have reporte reduced and another solutionthose who have been up a stalled arrylene at 600

"Nov. Mr. Garder, we will do a flat two." bade the unbelievable possible. Particularly as it was the thorseast, of October. What had had other possibilities will have to be tald by Mr. Handley Posts when he is welling to do so. But it

Steady, Silent Durable For transmission of noury around curves and over obstacles, use S.S.WHITE

FLEXIBLE SHAFTS Let us know your problem. We will supply the engineering

experience to solve il. - - -The S.S.White Dental Mfg.Co. West Africk St. New York, NY.

the ideal HANGAB for airplanes. COLUMNS ____

And first Construction often the period building for all leaves improvey or parameter. It gives people date and people of the period of the people of the pe Did for the court on the court of the puriou department will be the court of the co N V - : Glad St.

Flying Reate Maters Sepaties Neight bears, New Sirje for Hall belongs \$61.00 or hard fourly became belongs \$7.00 or thatbul fined to four belonds they have been or sign or sale. The old worker \$1.00 for lond gracoline Syrig and of londer one with for other \$7.00 or four of londer one with for other \$7.00 or four

FLOYD J. LOGAN AIRPLANE CO. Tit W. Superior Ave. Cleveland, Ohio Aviation Insurance for Toronto Theft Increase model appropri per \$750,000 personals

BANKS & BALCSON INC.

DOPE THE MOST ECONOMICAL SCHEME YET PRODUCED.

> TITANINE Inc. UNION UNION COUNTY N I Centractors to U. S. Government

A flying-suit that makes winter flying a pleasure

suspension felder IHLING BROS. EVERARD (

remains the to be dealer to be biggered to figure out ander to Accordance of green. All \$140. NO 2 have as show among hand throughout work haven \$125. Other Suits We are been a mission ng here pulses, heavy 1905, and and 1905, and then \$28. AIRPLANE CO., INC

HA WORTH AT, MARSHALL, MO.

SHIPMENT

Index to Advertisers dearer Aprila Co-created, les count horizon Damatony Commission Bandroom, Inc.

VAN SCHAACE BROS CHEMICAL WORKS

Contractors to U.S. Army and Nesy Wanted - MOTORS for ground course school

REW

State condition and WHIRLWIND LIBERTY THE REAM LE RHONE PRODUCING CO. GNOME

Toleda Ohio

Attract Parties to lots Australia, may AVLATION, No. of LTD St. New York.

Name 11 ONN-6, Handton prop. Overcoment Internal,

Complete act of Stimum for Laurela open plane; new, ner see! Valor offer J. Meldies, 200 E 1656 St. New Hea. N. Mail Haven 2167.

To all Madel & Hissa Lincoln transferst & I condition, on A rotar Hamilton propeller, 63906 Will deliver for opens. Were or wife 5 P. Better, 366 Madison St. Find 2000 feet from mandand, good stor for hydrophina and Store brees as property Phon processes. For

need toom name in property Prov. Resemble. For principle, upda F. A. McBarrey-Chapman Healty Co., 505 bits of P. Ramfarl, Cort. For sale. Wang piggs dual control, honoter starter; slepin remarkable condition, 51850 Jung, has been recordly remarkable condition, 51800 Juney, and been recently Turn rose, May new, with oppriderable cuton sourcement

Supus Juney OX-5 jost sebads and recovered threads

" Plant Co., 907 Levest St., Sterling, 53

For sale OX-5 Water Mine, from wings. Good condition-My in you what you need Let's hear you make offer. For The Anterior,

Barrery in OX 5 Jenny, \$560.00 with motors \$500.00 has Two E-6 meters in good curring condition with separately and shades. Price and each Three Headwar and Nissty Date can maxim. rates per out living minutes and Nimely 1900-iar: Also besinds there model A Hesse motion. New Or-leans Art Lans. New Orleans, Lo.

Air Kray brand new ship less motor \$1400.00. Need code buyla half interest a calon skip Charles IIII, Fr. 1285, inference Ave., Enfish, N. T.

HELP WANTED Draftmen One or two with approach expenses. Some

control will be seasohered. Apply by letter or in person to tilentic Australia Commention, Harbourde Manhie W. I. materials. Perference will be given to assure with air-

WHEN YOU WANT to buy, sell or exchange planes, motors and accessories-or are in need of competent help, or seeking a responsible position AVIATION Classified or

"Directory" ads will prove advantagrous. AVIATION, as the only weekly, covers your entire field first.





Clied and Ann Property Patro School in North-on-

PATATIZITATE Students require the primare state in a marginal neutron of annual neutron of Abor and Each and Ea Bariana Aer Service Company, Inc. WAKU Davaname Pictor classes at I Ulton, Ensisten, Mineral M. Schlern, 21th Tatoragen, Wirming Laure in 60 in the address utters and moved by confines Reling Empeldement and systems. In Science 2014,009. WOODTANA. Airplane Piston Rines Air Distance Recorder of the first party party and the 100 KONEER INSTRUMENT COMPANY AN POINT PLANTS CONTEST COME BANK AND AT THE WORLD P. the begins in the Field In model of Two Day country African works and the Models for September 8. Ed. St. Scholler bent Propings of Print and September 8. Ed. St. Scholler bent Propings Print for September 1. In Print Print September 1. In Print Septembe NAME OF TAXABLE PARTIES OF TAXABLE PARTIES. in materiality core Company Spring Interpretate at \$80.000 per hour or recepted at the color of the col of the Park of the F A LUTRY CO.

The state of the s TRAVEL AIR-STINSON PETCALDIN AVIATION of Book Curden, No. and realized 5 and count Larged Stock St. Commercial Associat Supplies on the World, We carry in stock the committance obspaces pump block of nicolone, pol. astronomy on makening post could principly need. While as not by five ofte page cooling. We have a larger stock than plilayer Steck Of Commercial Amount Supplem on the World.

PECHNIAN BEADLEY AMPLANE CO. INC. SEAMLESS STEEL TURING

EXPERT ADVICE ON YOUR AVIATION INSURANCE PROBLEMS

AVIATION INSURANCE PROBLEMS

AVIATION INSURANCE PROBLEMS

AND AVIATION INSURANCE AND

AVIATION EMBLEMS JOHNSON CO. MI A HARRY ... AMAC STREETS. NEW AGENT W. A.

AEROTECH Inc. Street Analysis Reports Appropriate ABRUST LAYOUTS

711 Movey Bids

BARGAINS BELAND ARCRAFT, INC. Garden City, Lane Island C.C. Manufacturers Arents for Alexantt and

AVIATION SERVICE CORPORATION

MONOCOUPE

GEO. A. WIES, Inc.

CONSTITUTANTS I... AERONAUTICAL ENGINEERING

Brand New LIBERTY & OXX6 MOTORS

Ann Arbor, Mich.

E A STALKER

302 E. Tog. Blde.

GE & phase stage

Assurtance SPORTPI AND Builders

Seed ONE dollar to DONALD L I SMITH

1) hour fries and prend when course. Moint endough. It has fries and prend when ourse. Moint endough. Expedience institute. He makes the dataful to the State of Advant. Exercising to 0 class from overtry, closed point print Service Erbel specimen, including Printer Covering to the Service Servi PARAS MORNING DISWAYS INC. (Should

profession appropriately a most Charried section to find Polyment morrowing given in Septemble places of the China variety above pilot in the Control of The second secon POSSETT PLAISE CECTOD. Proving Set as Educal Signal Print Print Plain State of Published State of Published Plain Print Set of Published Plain Print Set of Published Plain Published Print Published Print Published Print Published Print Published Print Published Publ

NAMES PLYING SERVICE 1512 West Boundary Common and PAL Springs, Workington and Spring Instruction in personally given by 5th Manner forth at a few particular plant given than pages of fiving agreement. Each new years and West. asperance East tary reasonable with WHEN IN EUROPE TRAPEL BY AIR! laporal Arrays, the Signis Line between London and the Contract Posteriors from

IMPERIAL ARREAYA SIR Madons Ass., New York Co. NOTICE IR card, up this directory, server to

keep your fiying service continuously before the readers of AVIATION at tribut Write for Rates

AVIATION

6855 INDIAN LAKE AVIATION COMPANY STRENGS FORT 0810 Laws in 80 for cert or at females for 3 We no proposed. For complete of translating and plants of the COMPLETE PLYING COURSE We provided to bear you in Eq. THE PROPERTY COMPANY, WACO BUTTONESSES

A Paying School of Statistical Wines for Purcher Particulary

You Jesus Dich-Station of Alle Ring Abdress

PAT FORE CLITTES PLYING SERVICE DEC. GAMPES CITE R. T. In 1617 the company fore more than 170 cells within morted field passengers, and length all months in the company of the company of

really Research and the own Parties or Continue of Continue or Parties or Continue or Cont

SCHOOL-Owners in consuming

PAY 140) \$1,0000-Council I have considered and the constraint of t

PRODUCED AVIATION of Name Cambro, Inc.

and the second second history Fig. 50, 600. For was bell at \$1.00 Ab., per, Francisch, J. C. Onet Spring smooth, Allegar Spring application, but of on Philary Georges, but only present the land of the control of the control

250 West 57th Street, New York City

FAIRCHILD

WACO

Laurader 21, 1921

EVERYTHING FOR THE AIRPLANE Send for Our Continue

NOT WASHINGTON BY NO. OF THE PARTY OF THE PARTY. LEARN AVIATION Arrival Strategies Alexanders
Alexanders Design & Construction

for details of opportunity to 1989 for AFLATISES LIBERTS For Especi & Domesto LIBERTY For Ampinon & Boots

James City, H. J., U. S. A.

CHE DOLLAR We will need you be recove qual to beautiful pair all exacting allows wings terrorood to har pin with makey much, also transferables and bened by Resincal Plant Asia. These pins are being even by Benesarie of Arthress, printing methods and beneath

WANTED Wright Gale L4 motors new or used. Write Box 733, Aviation.

AIRCRAFT CORPORATION

Belles & Col Rossies - 34 CO

Horentown Md. U.S.A.

The Most Comfortable Safety Bell AIR TRANSPORT FOURPMENT, INC. Carlo Plan, Long Mand, N. Y.

Record-breaking planes are built with HASKELITE Plywood BASTICALLY of the Assetted place earling trape that State have been both with HARCHLITE. I've will all the property and in Assetted place to the BASKELITE MANUFACTURING CORPORATION LUDINGTON PHILADELPHIA FLYING SERVICE SCHARLE CHARLESTA AVERS Agente

The Complete Privage for Day and East Tax form Harbins and Municipal Street, Supplies and Higher Paris, AIRPLANE SPRUCE

J. Y. G. POSEY & COMPANY Northwestern Bank Bushing PORTLAND, GREGOR THE EMBRY-RIDDLE COMPANY, Inc. Couples Line of Supples on Head

AIRCRAFT SUPPLIES Element additions to the class of wide tackets and belon terms all standard and wellby already majorials and service justs of matter on to give you prompt and official service.

see N. St. Peol Terrors. SEAMLESS STEEL TUBING

Warehouse stock also will shipment THE CLEVELAND TOOL & SUPPLY COMPANY MARTZELL PROPELLERS ARE BELIANCE BARTZELL WALANT PROPERTED OF

WARNING PLANT LE THEFTE Course see for EVE PROTECTION and your spec STRAUSS & BUEGELRISEN IN THOSE STREET READER TO F. T.

Datiel Germenheim School of Assessment Course in Arrestatival Engineering and Inistral Aviation. For particulars apply to the ban of the College of Engagering S. Y. University, University Relates, New York, N. Y.

SCADTA AIR LINES and passenger service from count to incurre The Carlo Server of the Control of the Carlo AMERICAN TRADING COMPANY

THE CHARGETY ASPIAL SERVICE COMPANY CONTENTS ASSISTED ASSISTANCE ASSISTS TREAD COUNTY OF STREET AND ADDRESS ASSESSMENT OF STREET THE UNIVERSELY SCHOOL OF ACROMATIVES

MOTORS & PLANES Description for the price and his place to the party and his place of the party of In 238 College St., See Autono, Van. SOUTHERN AIRWAYS INC

WIND CONES

Standard san, you specificarious \$6.50. Not not 1 to five extress, rath complete, month case. \$0.55 Acrotech, Inc., Streator, III.

- LIRERTY MOTORS -CAN Service Man LAND STREET, SANS ENGINEERS AND STREET, SANS ENGINEERS AND STREET, SANS AND ADDRESS OF PERSONS ASSESSMENT AND STREET, SANS AND ADDRESS JOHNSON MOTOR PRODUCTS, Inc.

CATES PLYON CHICKS and APLETIES COMPANY warf ears ward Here York, H. T. Lett. New Joseph Philosophila, Pa. Joseph P. Charles Control Manager Chair E. Prancisco, Cond. Nam.

AIRPORTS CONSTRUCTION ENGINEERS AMPORTS ADDITION NAMEANS SURVEYS ASSESTED. B. RUSSELL SHAW & CO. ST. LOUIS, MO.

SWALLOW \$2705, Wellete (Deal Controls for some Delivery Non property to Pa or A. R. FRAMPTON, 116 W. North Ave., Pumbers, Po.

Distributor for World Tophics of Principles LUXOR GOGGLES tive fit, secreet variou, complete conduc-Warn by leading svinters.

in my Brakeymonth commen

The sky that was a second from the year first had done who does not a section from the very tred ted : Price (subject to change) \$2,375.00. PERASANT ASSCRAFT CO., SIC. MEMPER. MO.

C S HANSON R.D.S. BURGARD, ORDO

sember 22, 1997 Nevember 23, 201

AVIATION

S F MANDREY ASSESSARY CORP.

promotion ... No. Nations, S., and Sant named to provide the last of t

to the School of the same or total realists of the State of the State

he are one producing the Bright Mills and another than the product and sink are tribulerable became in the state of the same in the same i

CONTRACTOR SERVICE CONTRACTOR CON

A BOTH AND ALL THE

L. Crease * ** .

Standard J-1 Airplanes completely rebuilt and recovered with factory rebuilt OX5 engines, set up, test flown,

and ready for fly away delivery - \$1000.00 Standard J-1 Airplanes with guaranteed overhauled Hisso Model

"A" motors - - \$1500.00

DeHaviland Air Mail Planes with Liberty motors \$2500.00 to \$5000.00

Douglas Air Mail Planes

1000 lb. ney lead 45500.00 with Liberty motors - -

Orioles with 180 h.p. Hispano Suiza motor installed \$1500.00

wonderful performance, three place,

1150 OX5 engines factory rebuilt - -

OX5 engines government overhauled - \$250.00

Learn To Fly - \$100.00 Oldest and Largest Flying School in the Country The Nieth Year of Our School

Write for new free catalogue

Robertson Aircraft Corporation St. Louis Flying Field Anglum, Missouri

The World's Premier Fabric . . .



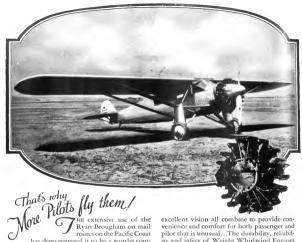
dition. It was prefected by

for piece when expered with Flighter

he on added distinction of quality.

E. S. TWINING & COMPANY 320 Broadway, New York, N. Y.

Coble Address: Flinker Code: ARC 6th Edition



HE extensive use of the Ryan Brougham on mail routes on the Pacific Coast panion of fissistership "The Spirit of St. Louis".

The remarkable performance of this plane is built upon sound engineering design plus excellent construction—and the installation of Wright Whirlwind Engine. Deeply cushioned chairs, heavily insulated cabins, easy of access with splendid ventilation, together with

excellent vision all combine to provide convenience and comfort for both passenger and pilot that is unusual...The durability, reliability and safety of Wright Whirlwind Engines in private flying is proverbial. Their splendid performance in the many overseas flights and in over 4(35),000 miles of military and commercial flying during 1926 confirms the faith that experienced fliers and aerial commercial operators have in this Superlative Engine.

WRIGHT AERONAUTICAL CORPORATION, Paterson, N. J., U. S. A.

WIRIGHT

